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Optimal Tapped Density Tester



Available in USP or ASTM versions, our dual platform Optimal Tap Density Testers offer a standardized and repeatable method for measuring tapped or packed volumes of powders and granulated or flaked materials. Our microprocessor controlled USP model features a rotating platform for simultaneous tapping and rotation of the cylinder to ensure a level reading. The USP version provides a 5/8-inch vertical drop per tap at 300 taps per minute and includes one 100 ml funnel top graduated cylinder per platform. Our ASTM version (which complies with the American Society for Testing and Materials Standards) features a non-rotating platform, a 1/8-inch vertical drop per tap at 250 taps per minute, and one 250 ml graduated funnel top cylinder per platform. ASTM method D4164-82 is for testing catalyst particles and requires a 250 ml cylinder and platform; B527-93 involves metallic powders and compounds and requires a 100 ml cylinder and platform.

All of our Tap Density Testers have digital LED displays and user selectable counter or timer operation. The embedded sealed membrane keypad is impervious to dust and particles and can be used to calculate density measurements. The units can be programmed to any number of taps or time period required. An optional thermal printer records program test conditions, time, date, and density measurements.

Tap Density Tester, USP 24 / NF 19

Includes dual rotating platform drive units and two 100 ml graduated funnel top cylinders (class B).

400-001 115V, 60Hz, dual platform, USP

400-002 230V, 50Hz, dual platform, USP

Tap Density Tester, ASTM

Includes dual non-rotating platform drive units and two graduated funnel top cylinders (class B).

400-003 115V, 60Hz, dual platform, ASTM with 250 ml graduated cylinders

400-004 230V, 50Hz, dual platform, ASTM with 250 ml graduated cylinders

400-006 115V, 60Hz, dual platform, ASTM with 100 ml graduated cylinders

400-007 230V, 50Hz, dual platform, ASTM with 100 ml graduated cylinders